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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,193	06/21/2001	David F. Craddock	AUS920010469US1	6524

7590 11/17/2004
Duke W. Yee
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EXAMINER

OSMAN, RAMY M

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	09/886,193		CRADDOCK ET AL.	
	Examiner		Art Unit	
	Ramy M Osman		2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) * | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. ¹⁻⁴² Claims rejected under 35 U.S.C. 102(e) as being anticipated by Biran et al (US Patent No 6,658,521).

3. In reference to claims 1,15 and 29, Biran teaches a method, a program and a data processing system respectively, having a host, for performing an input/output transaction, comprising:

 sending a memory address a request via remote direct memory access adapter; retrieving the request, under the control remote direct memory access from the host; and initiating, under the control of the adapter, a remote direct memory access transfer with the host responsive to the request. (Summary and column 3 lines 1-40)

4. In reference to claims 2,16 and 30, Biran teaches the method, the program and the data processing system respectively of claims 1,15 and 29, wherein the transfer includes the adapter's reading memory from the host (column 2 lines 5-10).

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5. In reference to claims 3,17 and 31 Biran teaches the method, the program and the data processing system respectively of claims 1,15 and 29, wherein transfer includes the adapter's writing to memory of the host (column2 lines 5-10).
6. In reference to claims 4,18 and 32 Biran teaches the method, the program and the data processing system respectively of claims 1,15 and 29, wherein the request includes remote direct memory access parameters (column 3 lines 35-43).
7. In reference to claims 5,19 and 33 Biran teaches the method of claim 4,18 and 32 respectively, wherein the remote direct memory access parameters include at least one of a transaction ID, a list of request and data remote memory data segments, a type of storage command, an identification of a storage device, an address on a storage device, and a data length (column 3 lines 35-43).
8. In reference to claims 6,20 and 34 Biran teaches the method, the program and the data processing system respectively of claims 1,15 and 29, further comprising: receiving a confirmatory response via remote direct memory access transfer from the adapter (column 6 lines 16-40).
9. In reference to claims 7,21 and 35, Biran teaches a method, a program and a data processing system respectively, having an adapter, for performing an input/output transaction, comprising:
 - receiving via remote direct memory access, the address of a request from a host;
 - retrieving via remote direct memory access the request; and
 - performing a remote direct memory access transfer with the host, based on the request. (Summary and column 3 lines 1-40)

10. In reference to claims 8,22 and 36, Biran teaches the method, program and data processing system respectively of claims 7,21 and 35, wherein the transfer includes reading memory from the host (column 2 lines 5-10).

11. In reference to claims 9,23 and 37, Biran teaches the method of claim 8,22 and 36 respectively, further comprising: writing data from the memory to a storage device (column 2 lines 5-10).

12. In reference to claims 10,24 and 38, Biran teaches the method, program and data processing system respectively of claims 7,21 and 35, wherein the transfer includes writing to memory of the host (column 2 lines 5-10).

13. In reference to claims 11,25 and 39, Biran teaches the method of claims 10,24 and 38 respectively, further comprising:
reading, from a storage device, data to be written to the memory (column 3 lines 1-40).

14. In reference to claims 12,26 and 40, Biran teaches the method, program and data processing system respectively of claims 7,21 and 35, wherein the request includes remote direct memory access transfer parameters (column 3 lines 35-43).

15. In reference to claims 13,27 and 41, Biran teaches the method of claims 12,26 and 40 respectively, wherein the remote direct memory access parameters include at least a transaction ID, a list of request and data remote memory data segments, a type of storage command, an identification of a storage device, an address on a storage device and a data length (column 3 lines 35-43).

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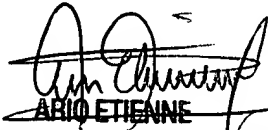
16. In reference to claims 14,28 and 42, Biran teaches the method, program and data processing system respectively of claims 7,21 and 35, further comprising: sending a confirmatory response via remote direct memory access to the host (column 6 lines 16-40).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M Osman whose telephone number is (571) 272-4008. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMO
November 11, 2004


ARIO ETIENNE
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